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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,450	06/21/2007	Hasan B. Alam	101672.0071P	9092
34284 Rutan & Tucker	7590 04/09/201 r. LLP.	EXAMINER		
611 ANTON B		TREYGER, ILYA Y		
SUITE 1400 COSTA MESA, CA 92626			ART UNIT	PAPER NUMBER
			3761	
			MAIL DATE	DELIVERY MODE
			04/09/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)			
		10/595,450	ALAM ET AL.			
		Examiner	Art Unit			
		ILYA Y. TREYGER	3761			
The MAILING DATE of this Period for Reply	communication app	ears on the cover sheet w	vith the correspondence a	ddress		
A SHORTENED STATUTORY PI WHICHEVER IS LONGER, FROI - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date - If NO period for reply is specified above, the - Failure to reply within the set or extended peen ye reply received by the Office later than the earned patent term adjustment. See 37 CFF	M THE MAILING DA e provisions of 37 CFR 1.1. of this communication. maximum statutory period v riod for reply will, by statute ree months after the mailing	ATE OF THIS COMMUN 36(a). In no event, however, may a vill apply and will expire SIX (6) MO cause the application to become	IICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).			
Status						
Responsive to communicat This action is FINAL . Since this application is in a closed in accordance with terms.	2b)⊠ This condition for allowar	action is non-final. nce except for formal ma	•	ne merits is		
Disposition of Claims						
4) ☐ Claim(s) 1-25 is/are pendin 4a) Of the above claim(s) 3- 5) ☐ Claim(s) is/are allow 6) ☐ Claim(s) 1,2,6-11,14,15,17 7) ☐ Claim(s) is/are object 8) ☐ Claim(s) are subject Application Papers 9) ☐ The specification is objected 10) ☐ The drawing(s) filed on 20 A Applicant may not request that Replacement drawing sheet(s 11) ☐ The oath or declaration is of	ed. and 19-25 is/are rested to. to restriction and/o to by the Examine april 2006 is/are: a) any objection to the including the correct	is/are withdrawn from co jected. r election requirement. r. ⊠ accepted or b) obju drawing(s) be held in abeya ion is required if the drawin	ected to by the Examiner. ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 C	CFR 1.121(d).		
Priority under 35 U.S.C. § 119	.,					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing 3) Information Disclosure Statement(s) (PT		Paper No	r Summary (PTO-413) o(s)/Mail Date · Informal Patent Application 			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/17/2009 has been entered.
- 2. Claims 1, 17, 19 and 24 are amended introducing new limitation.
- 3. Claims 3-5, 12, 13, 16 and 18 are canceled.
- 4. Claims 1, 2, and 6-11, 14, 15, 17 and 19-25 are examined on the merits.

Response to Arguments

With respect to amended claims 1, 17, 19 and 24, Applicants arguments are substantially based on the amendment made to the claims.

Applicant's arguments based on the amendment made to the claims are moot in view of new ground of rejection.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claims 1, 2, 6-11, 14, 15, 17 and 19-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pena (US 4,029,095) in view of Schachet (US 3,783,870).
- 9. In Re claim 1, Pena discloses device for circulating treating fluid through the nasal fossae, which is a body cavity, comprising:

a manually operable pump means including an elastic bulb 12a (Fig. 1) adapted to be manually compressed;

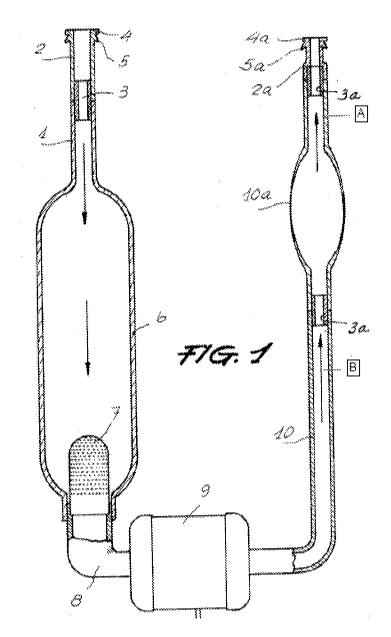
an inflow conduit B and outflow conduit A connected to the bulb by connectors 3a (Fig. 1); and

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a pair of one-way valves respectively situated at the suction inlet and pressure outlet for providing for flow of fluid only from the suction tubular means into the elastic bulb during expansion of the latter and for flow of fluid only out of said elastic bulb into said pressure tubular means during manual compression of said elastic bulb (Col. 2, lines 14-26; Col. 6, lines 43-53), wherein a pair of one-way valves are providing one-way flow (Col. 2, lines 21-26), and therefore is fully capable of providing the flow by gravity alone if positioned vertically. Inflow connector (4).

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Pena does not expressly disclose the apparatus comprising a pleural evacuation tube for removing fluid from a plural space <u>but</u> discloses cannula 2 comprising a flange 4 being adapted for positioning into the nasal fossea. As such, Pena motivates those skilled in the art to attach any type of tubing being adapted for positioning into the any particular body cavity.

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Schachet teaches the suction drainage device (See Title) for connection to a pleural cavity (Abstract, lines 1-2) comprising a pleural evacuation tube for removing fluid from a pleural cavity (col. 3, lines 19-22).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to supply the device of Pena with the pleural evacuation tube, as taught by Schachet in order to in order to remove fluids from the pleural space (Schachet, col. 1, lines 8-11).

- 10. In Re claim 2, Pena discloses the manual pump wherein the inflow conduit is selected from the group consisting of a standard chest tube, an endotracheal tube, and/or a catheter, since both a standard chest tube, an endotracheal tube, and/or a catheter are variations of the conduit.
- 11. In Re claims 6-8, Pena discloses the manual pump comprising the bulb 10a fully capable of being compressed by one hand (claim 6), two hands (claim 7), or by using foot (claim 8) (See Fig. 1).
- 12. In Re claim 9, Pena discloses the manually operable pump wherein the exterior of the compressible portion is covered by a textured surface. In accordance with definition the texture is the appearance and feel of a surface (See *The American Heritage® Dictionary of the English Language, Fourth Edition*). Since the pump body 10a is disclosed as operated by the hand it is designed to be felt, and thus the pump body surface is textured.
- 13. In Re claim 10, Pena discloses a manually operable pump fully capable of removing a body fluid components, since the apparatus of Pena is disclosed as intended to remove liquid from the nasal cavity and comprises the same structure, as claimed by Applicants.

- 14. In Re claim 11, Pena discloses the manually operable pomp connected to the external device 9 (Fig. 1), and thus is fully capable of being connected to an autotransfusion device.
- 15. In Re claim 14, Pena discloses the manually operable pump comprising a conduit 10 (Fig. 1) fully capable of being connected to the additional manually operable pump.
- 16. In Re claim 15, Pena in view of Schachet disclose the claimed invention discussed above, but do not expressly disclose the particular parameter of the negative pressure range generating by the pump.

The particular parameter of the negative pressure range generating by the pump depends of the particular quantity of liquid intended to be removed from the body cavity, and therefore is a result effective variable and a matter of optimization.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the pump generating the negative pressure range depending of the particular quantity of liquid intended to be removed from the body cavity, since discovering the optimum or workable ranges involves only routine skill in the art.

17.

- 18. In Re claim 17, Pena discloses device for circulating treating fluid through the nasal fossae, which is a body cavity, comprising:
- a manually operable pump means including an elastic bulb 12a (Fig. 1) adapted to be manually compressed;

an inflow conduit B and outflow conduit A connected to the bulb by connectors 3a (Fig. 1); and

a pair of one-way valves respectively situated at the suction inlet and pressure outlet for providing for flow of fluid only from the suction tubular means into the elastic bulb during expansion of the latter and for flow of fluid only out of said elastic bulb into said pressure tubular means during manual compression of said elastic bulb (Col. 2, lines 14-26; Col. 6, lines 43-53), wherein a pair of one-way valves are providing one-way flow (Col. 2, lines 21-26), and therefore is fully capable of providing the flow by gravity alone if positioned vertically.

Pena does not expressly disclose the apparatus comprising a pleural evacuation tube for removing fluid from a plural space.

Schachet teaches the suction drainage device (See Title) for connection to a pleural cavity (Abstract, lines 1-2) comprising a pleural evacuation tube for removing fluid from a pleural cavity (col. 3, lines 19-22).

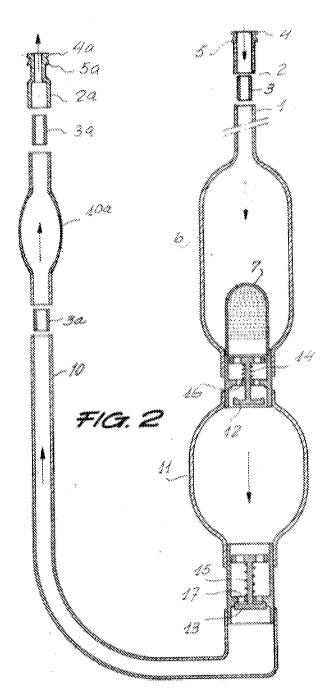
The rationale of obviousness rejection discussed above in claim 1 is incorporated herein in its entirety.

- 19. In Re claims 19 and 20, Pena discloses the system for removing fluids from a body cavity, comprising:
 - a fluid receptacle 6 (Col. 2, line 64; Figs. 1 and 2) fully capable of receiving fluids from the body cavity; and
- a manually operable pump in fluid communication with both the body cavity and the fluid receptacle, operation of the pump generating a negative pressure relative to the body cavity (Col. 2, lines 14-26; Col. 6, lines 43-53), wherein the manually operable pump comprises a pump body 10a (Figs. 1 and 2) comprising a pair of one-way valves respectively situated at the suction inlet and pressure outlet for providing for flow of fluid only from the suction tubular means into

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the elastic bulb during expansion of the latter and for flow of fluid only out of said elastic bulb into said pressure tubular means during manual compression of said elastic bulb (Col. 2, lines 21-26) (claim 20), wherein a pair of one-way valves are providing one-way flow (Col. 2, lines 21-26), and therefore is fully capable of providing the flow by gravity alone if positioned vertically.

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Pena does not expressly disclose the apparatus comprising a pleural evacuation tube for removing fluid from a plural space.

Schachet teaches the suction drainage device (See Title) for connection to a pleural cavity (Abstract, lines 1-2) comprising a pleural evacuation tube for removing fluid from a pleural cavity (col. 3, lines 19-22).

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The rationale of obviousness rejection discussed above in claim 1 is incorporated herein in its entirety.

- 20. In Re claim 21, Pena discloses the system comprising a tube A (Fig. 3) which is interpreted as a implantable catheter, since it is disposed into the nasal cavity.
- 21. In Re claim 22, Pena discloses the system comprising two connectors 3a (Fig. 2) connecting conduits 2a and 10 to the appropriate ends of the pump body 10 (Fig. 2).
- 22. In Re claim 23, Pena in view of Schachet disclose the claimed invention discussed above, but do not expressly disclose the particular parameter of the fluid flow range generating by the pump.

The particular parameter of the fluid flow range generating by the pump depends of the particular disease intended to be treated and the particular type of treatment required, and therefore is the matter of optimization.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the pump generating the fluid flow range depending of the particular clinical diagnosis and treatment required, since discovering the optimum or workable ranges involves only routine skill in the art.

23. In Re claim 24, since the system of Pena is disclosed as provided and assembled, Pena discloses the method of removing fluid from a nasal fossae fully capable of producing the same result rmoving fluid from a pleural cavity, the method comprising:

attaching a manually operable pump to a proximal end of an implanted catheter, the manually operable pump in fluid communication with a fluid receptacle;

generating a negative pressure via the manually operable pump to initiate fluid flow from the body cavity toward the fluid receptacle; and

positioning the manually operable pump to flow fluid from the body cavity to the fluid receptacle with the aid of gravity.

Pena does not expressly disclose the method comprising a device having a pleural evacuation tube for removing fluid from the plural space.

Schachet teaches the method of draining the pleural cavity (Abstract, lines 1-2) using the apparatus having a pleural evacuation tube for removing fluid from a pleural cavity (col. 3, lines 19-22).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Pena by providing the pleural evacuation tube, as taught by Schachet in order to focus the method to draining liquid from the particular body cavity, i.e. pleural cavity (Schachet, col. 1, lines 8-11).

24. In Re claim 25, Pena discloses the step of generating a negative pressure comprises compressing a pump body interposed between two one-way valves to initiate unidirectional fluid flow from the body cavity to the fluid receptacle (Col. 2, lines 14-26; Col. 6, lines 43-53).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ILYA Y. TREYGER whose telephone number is (571)270-3217. The examiner can normally be reached on 7:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tatyana Zalukaeva can be reached on 571-272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ilya Y Treyger/ Examiner, Art Unit 3761

/Tatyana Zalukaeva/ Supervisory Patent Examiner, Art Unit 3761